



AR585 Series
User Guide

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Acer AR585 Series
User Guide

Acer AR585

Model Number : _____

Serial Number: _____

Purchase Date: _____

Place of Purchase: _____

Information for your safety and comfort

Safety instructions

Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.

Turning the product off before cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

CAUTION for plug as disconnecting device

Observe the following guidelines when connecting and disconnecting power to the power supply unit:

- Install the power supply unit before connecting the power cord to the AC power outlet.
- Unplug the power cord before removing the power supply unit from the computer.
- If the system has multiple sources of power, disconnect power from the system by unplugging all power cords from the power supplies.

CAUTION for accessibility

Be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment operator as possible. When you need to disconnect power to the equipment, be sure to unplug the power cord from the electrical outlet.

Warnings

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.

- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use this product under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage rotor devices, hard drives, optical drives, and even exposure risk from lithium battery pack.
- This product is not suitable for use with visual display workplace devices according to B2 of the German Ordinance for Work with Visual Display Units.

Using electrical power

- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
- If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
- Do not overload a power outlet, strip or receptacle by plugging in too many devices. The overall system load must not exceed 80% of the branch circuit rating. If a power strip is used, the load should not exceed 80% of the power strip's input rating.
- This product's power supply is equipped with a three-wire grounded plug. The plug only fits in a grounded power outlet. Make sure the power outlet is properly grounded before inserting the power supply plug. Do not insert the plug into a non-grounded power outlet. Contact your electrician for details.



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Warning! The grounding pin is a safety feature. Using a power outlet that is not properly grounded may result in electric shock and/or injury.



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Note: The grounding pin also provides good protection from unexpected noise produced by other nearby electrical devices that may interfere with the performance of this product.

- Use the product only with the supplied power supply cord set. If you need to replace the power cord set, make sure that the new power cord meets the following requirements: detachable type, UL listed/CSA certified, VDE approved or its equivalent, 4.6 meters (15 feet) maximum length.

Product servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- the power cord or plug is damaged, cut or frayed
- liquid was spilled into the product
- the product was exposed to rain or water
- the product has been dropped or the case has been damaged
- the product exhibits a distinct change in performance, indicating a need for service
- the product does not operate normally after following the operating instructions



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Note: Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

This server should be located in a restricted access location or an area with similar instruction.



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Caution: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.



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Caution: Use only a UL approved Laser Class I optical fiber transceiver with this server. When an optical transceiver is used, a barrier should be provided to cover the openings on the transceiver.



Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit www.acer-group.com/public/Sustainability/sustainability01.htm.

Regulations and safety notices

FCC notice

This device has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations. In compliance with FCC regulations, use shielded cables to connect to other computing devices. A dual-link cable is recommended for DVI output.

Notice: Peripheral devices

Only peripherals (input/output devices, terminals, printers, etc.) certified to comply with the Class A limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this computer.

Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class A digital apparatus complies with Canadian ICES-003.

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Compliant with Russian regulatory certification



Notice: BSMI

警告使用者：

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Laser compliance statement

The CD or DVD drive used with this computer is a laser product. The CD or DVD drive's classification label (shown below) is located on the drive.

CLASS 1 LASER PRODUCT

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

Appareil à laser de classe 1

Attention : Radiation laser visible et invisible en cas d'ouverture. Éviter toute exposition aux rayons.

Laserprodukt der Klasse 1

Achtung: Beim Öffnen werden unsichtbare Laserstrahlen freigelegt. Setzen Sie sich diesen Strahlen nicht aus.

Prodotto laser di classe 1

Attenzione: Radiazioni laser invisibili in caso d'apertura. Evitare l'esposizione ai raggi.

Producto láser de Clase 1

Precaución: Cuando está abierta, hay radiación láser. Evite una exposición al haz de luz.

Produto Laser de Classe 1

Precaução: Radiação laser invisível quando aberto. Evite exposição ao feixe.

Laserproduct klasse 1

Voorzichtig: Onzichtbare laserstraling indien geopend. Voorkom blootstelling aan straal.

Declaration of Conformity for EU countries

Hereby, Acer, declares that this system is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

List of applicable countries

This device must be used in strict accordance with the regulations and constraints in the country of use. For further information, please contact local office in the country of use. Please see <http://ec.europa.eu/enterprise/rtte/implem.htm> for the latest country list.

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1 System tour

System notes

The AR585 is an outstanding 2U rack-mountable server that runs on the AMD Opteron™ 6000 Series server platform. The following AMD technologies are supported in this platform: AMD CoolCore™, AMD PowerNow!™, Enhanced C1 state, AMD CoolSpeed, and APML (in APML enabled platforms).

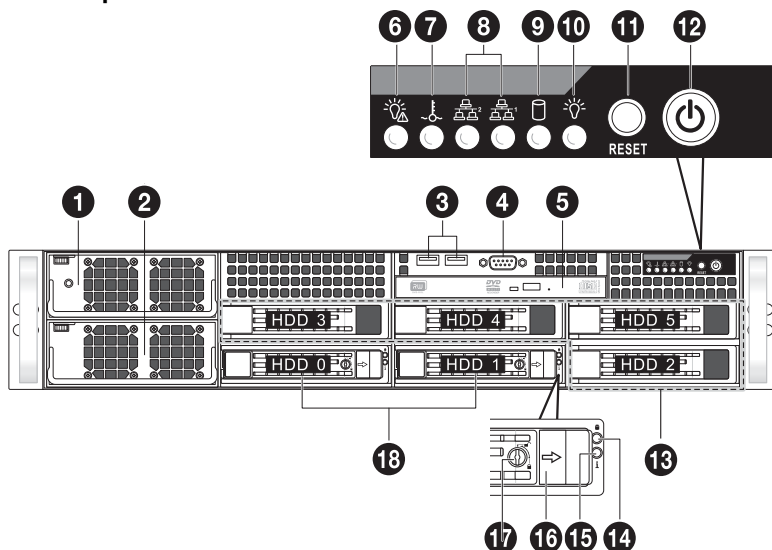
The AR585 targets small and medium businesses that require server solution combined with performance, reliability and expandability. AR585 is a flexible and high reliability rack server that satisfies growing businesses and customers' needs.

System features and support




- Four G34 CPU sockets supporting the AMD Opteron™ 6000 Series processors
- AMD Embedded Enterprise Chipset (SR5690/SR5670 I/O bridge + SP5100 south bridge)
- 32 quad channel DDR3 slots supporting up to 512 GB of RDDR3 modules or 128 GB of UDDR3 modules
- Support for high speed peripherals using PCI Express Generation 2 technology (two PCIe x16 slots, one PCIe x8 slot, and choice of one PCIe x8 or one Flex I/O slot)
- Additional I/O option using one Universal I/O (UIO) expansion slot
- HyperTransport™ 3 Technology allows high speed interconnection between the processors and the I/O devices
- Supports up to six 3.5-inch SAS/SATA hard disk drives
- One DVD-ROM optical drive
- I/O ports supported
 - Four USB ports (two each on the front and rear panels)
 - Two serial ports (one each on the front and rear panels)
 - One video port (VGA)
 - Two Gigabit LAN ports
 - One dedicated IPMI LAN port
 - One PS/2 mouse port, one PS/2 keyboard port
- One 1400 W power supply unit (PSU), support for redundant PSU

External and internal structure

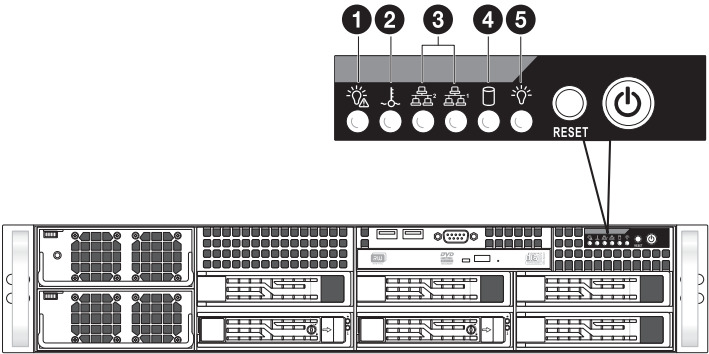
Front panel








No.	Icon	Component	No.	Icon	Component
1		Default power supply unit (PSU)	7		Overheating/fan failure LED indicator
2		Redundant PSU bay	8		LAN port 1/2 activity indicators
3		USB 2.0 ports	9		HDD activity indicator
4		Serial port	10		Power indicator
5		Optical disc drive (ODD)	11	RESET	Reset button
6		Power failure LED indicator	12		Power button

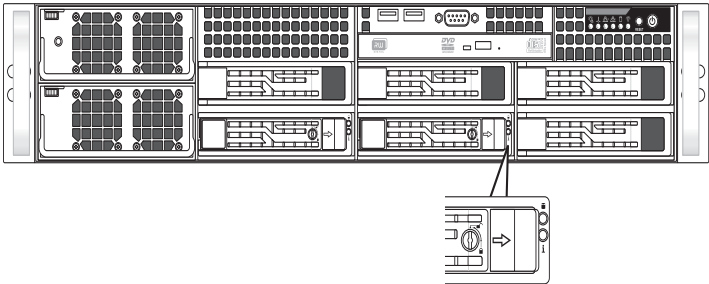
No.	Icon	Component	No.	Icon	Component
13		3.5-inch hard disk drive (HDD) bays	16		HDD release button
14		HDD access/failure LED indicator	17		HDD security lock
15		HDD rebuild/spare LED indicator	18		2.5-inch hard disk drives



Control panel LED indicator status



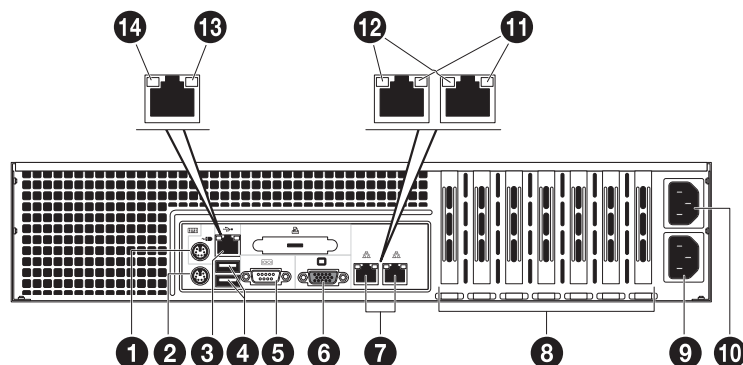
No.	Function	Icon	Status	Indicated behavior
1	Power failure		Red - On	Power supply unit failure
2	Overheating /fan failure		Red - On	System temperature safety threshold breach
			Red - Blinking	System fan failure
3	LAN port 1/2 activity		Green - Blinking	Network activity on LAN port 1 or 2
4	HDD activity		Amber - Blinking	Hard drive activity
5	Power state		Green - On	System is powered on







Hot-plug HDD carrier LED indicator status



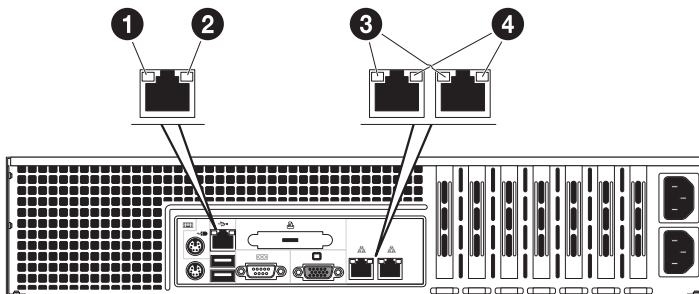
Hard drive status		
Hard drive access	Green - Blinking	Off
Hard drive failure	Green - On for SAS HDD, Off for SATA HDD	Red - On
Hard drive rebuilding	Green - Blinking	Red - Blinking
HDD hot spare	Green - Blinking	Red - Blinking

Rear panel



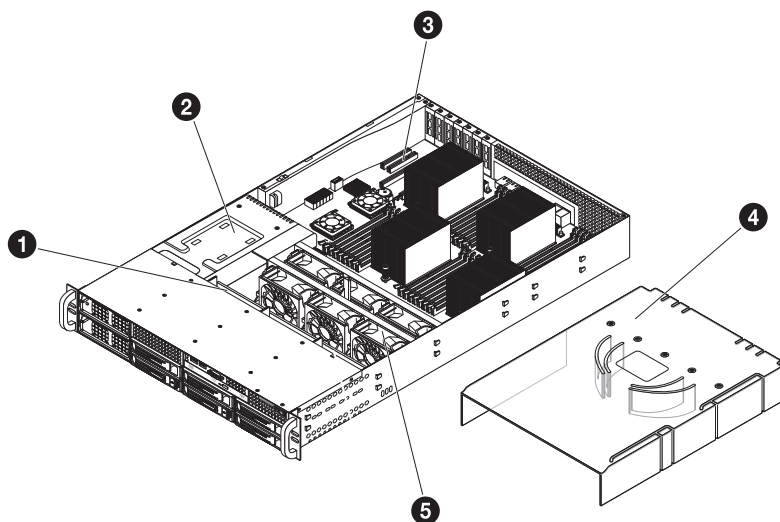
No.	Icon	Component	No.	Icon	Component
1		PS/2 mouse port	8		Expansion slot covers
2		PS/2 keyboard port	9		AC power plug for the redundant PSU
3		Dedicated IPMI LAN port (10/100)	10		AC power plug for the default PSU
4		USB 2.0 ports	11		Gigabit LAN port link indicator
5		Serial port	12		Gigabit LAN port activity indicator
6		Video port (VGA)	13		IPMI LAN port activity indicator
7		Gigabit LAN ports	14		IPMI LAN port link indicator

Rear panel LED indicator status



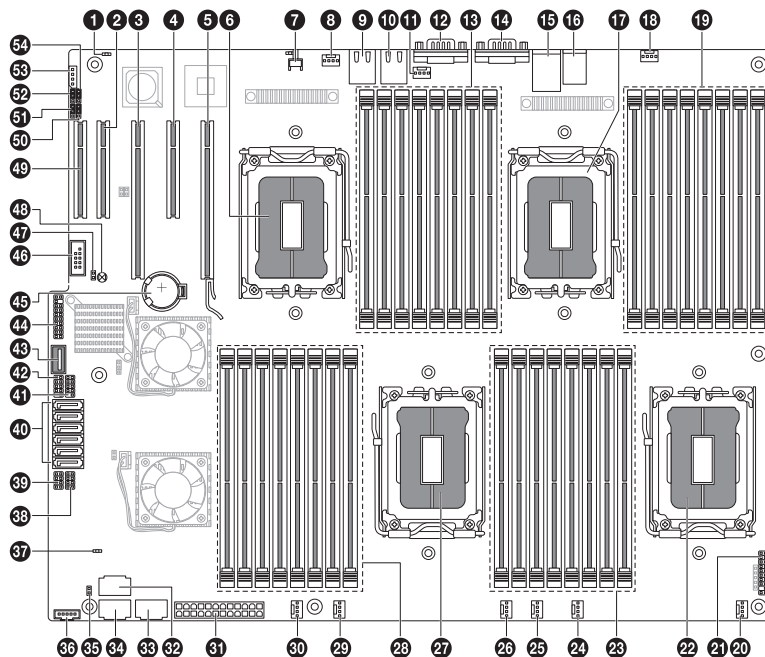
No.	Function	Status	Indicated behavior
1	IPMI LAN port link	Green	100 Mbps network link
		Off	10 Mbps network link
2	IPMI LAN port activity	Amber - Blinking	Active connection
3	Gigabit LAN port activity	Yellow - On	Active connection
		Yellow - Blinking	Transmit/receive activity
4	Gigabit LAN port link	Off	10 Mbps network link
		Green	100 Mbps network link
		Amber	1000 Mbps network link

Internal components



No.	Component
1	HDD backplane board
2	Default PSU
3	Mainboard
4	Air shroud
5	System fans

Mainboard layout

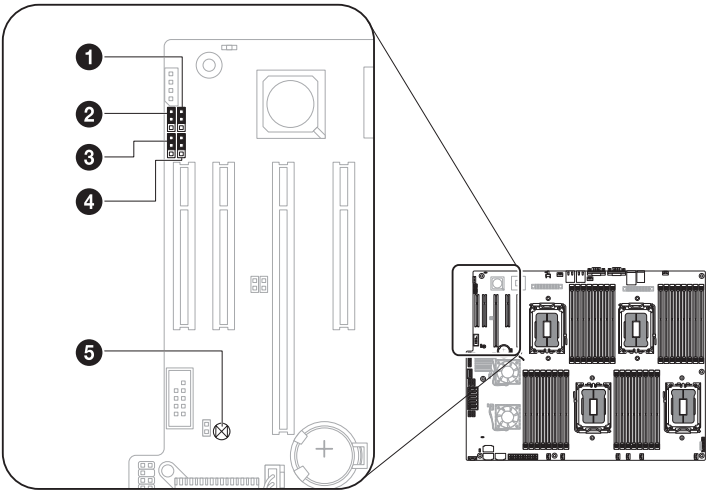


No.	Code	Component
1	DP1	IPMI heartbeat LED
2	PCI-E slot1	PCIe Gen 2 x8 expansion slot
3	PCI-E slot2	PCIe Gen 2 x16 expansion slot
4	PCI-E slot3	PCIe Gen 2 x8 expansion slot
5	PCI-E slot4	PCIe Gen 2 x16 expansion slot
6	CPU1	Processor 1 socket
7	ID	Unit identifier button
8	FAN9	Processor 1 fan
9	LAN2	Gigabit Ethernet port 2

No.	Code	Component
10	LAN1	Gigabit Ethernet port 1
11	FAN8	Chassis fan 8
12	VGA	Video port
13	P1 DIMM	DDR3 DIMM slots for processor 1
14	COM1	Serial port 1
15	IPMI/LAN/USB0/USB1	Dedicated IPMI LAN port/rear USB ports
16	Keyboard/Mouse	PS/2 keyboard and mouse ports
17	CPU3	Processor 3 socket
18	FAN7	Processor 3 fan
19	P3 DIMM	DDR3 DIMM slots for processor 3
20	FAN1	Processor 4 fan
21	JF1	Front panel board connector
22	CPU4	Processor 4 socket
23	P4 DIMM	DDR3 DIMM slots for processor 4
24	FAN2	Chassis fan 2
25	FAN3	Chassis fan 3
26	FAN4	Processor 2 fan
27	CPU2	Processor 2 socket
28	P2 DIMM	DDR3 DIMM slots for processor 2
29	FAN5	Chassis fan 5
30	FAN6	Chassis fan 6
31	JPW1	24-pin main ATX power connector
32	JPW4	+12V 8-pin power connector

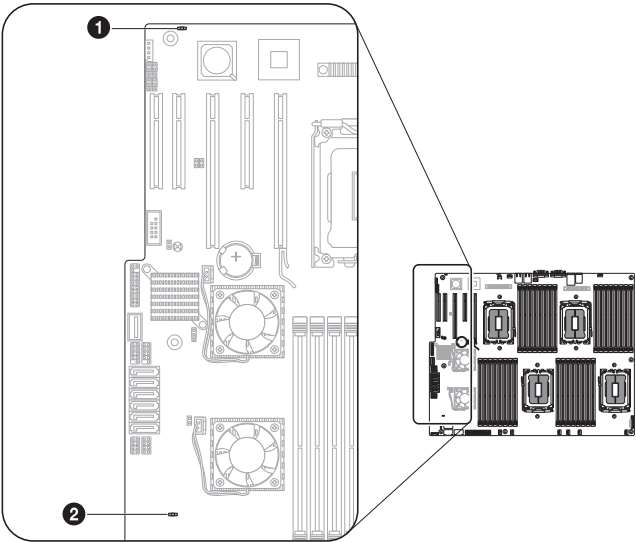
No.	Code	Component
33	JPW2	+12V 8-pin power connector
34	JPW3	+12V 8-pin power connector
35	JOH1	Overheating warning header
36	JPI2C1	Power I ² C header
37	DP3	Mainboard power-on LED
38	T-SGPIO1	Serial general purpose I/O header for SATA
39	T-SGPIO2	Serial general purpose I/O header for SATA
40	SATA0-SATA5	SATA connectors
41	USB4/5 header	USB header 4/5
42	USB2/3 header	USB header 2/3
43	USB6	USB Type A port
44	JTPM1	Trusted platform module header
45	JBT1 Battery	CMOS battery
46	COM2	Serial port 2
47	JL1	Chassis intrusion header
48	JBT1	Clear CMOS jumper
49	UIO slot	UIO or PCIe Gen 2 x8 expansion slot
50	JPB1	BMC jumper
51	JPG1	VGA jumper
52	JWD1	Watchdog jumper
53	JSMB1	SMB header
54	JPL1	LAN port jumper

Mainboard jumper settings



No.	Code	Function	Setting
1	JPL1	Enable Gigabit LAN ports	1-2 Close: Enabled (default setting) 2-3 Close: Disabled
2	JWD1	Enable watchdog	1-2 Close: Reset (default setting) 2-3 Close: NMI Open: Disabled
3	JPG1	Enable VGA port	1-2 Close: Enabled (default setting) 2-3 Close: Disabled
4	JPB1	Enable BMC	1-2 Close: Enabled 2-3 Close: Normal (default setting)
5	JBT1	Clear CMOS	To clear CMOS, use a metal object such as a small screwdriver to touch both pads at the same time to short the connection.

Mainboard LED



No.	Code	Function	Status	Description
1	DP1	IPMI heartbeat	Flashing green	BMC normal
2	DP3	Mainboard power	Green	Power on

Appendix A

Server management tools

Server management overview

The server management tools supported by this system are listed in the table below.

Tool	Function
Acer Smart Server Manager	Remotely manage the server in a network environment through a single management station. For detailed instructions on how to install and use this utility, please refer to the Acer Smart Server Manager User Guide.
Acer Smart Setup	Allows you to install your choice of operating system for the server, clone system to set up multiple identical servers, set up BMC, and configure RAID for the system hard drives. For detailed instructions on this utility, please refer to the Acer Smart Setup Help file.
Acer Smart Console	Remotely manage the server via a UPnP tool or a Web browser. For detailed instructions on this utility, please refer to "Appendix B Acer Smart Console" on page 21.

RAID configuration utilities

Adaptec Onboard SATA RAID Creation

Configuring Adaptec onboard SATA RAID

This section briefly shows how to create RAID volume with Adaptec onboard SATA RAID.

Enabling onboard SATA RAID

- 1 Turn on the server and the display monitor. If the server is already turned on, please close all open applications and then restart the server.
- 2 During POST, press <F2> to access the BIOS Setup Utility.
- 3 Select the **Advanced > ATA Controller Configuration** submenu.
- 4 Change the setting of the **OnChip SATA Type** field from **Native IDE** to **RAID**.
- 5 Press <F10> and select **Ok** to save the setting and close the Setup Utility.

Entering onboard SATA RAID BIOS Utility

To start Adaptec onboard SATA RAID BIOS Utility, press **CTRL-A** when you see the RAID BIOS prompt during POST. After POST finished, the Adaptec RAID Configuration Utility will display on the screen.

Loading Factory Default Setting

Adaptec onboard SATA RAID utility does not provide an option for factory default setting. To reset onboard SATA RAID volume related configurations, please delete the existing onboard SATA RAID volumes.

Creating a RAID Volume

- 1 Select **Array Configuration Utility** option.
- 2 Select **Create Array**.
The **Select drives to create Array** displayed.
- 3 Select desired hard drive disk and then press <Insert> to add it in the **Selected Drives** area.
- 4 Press <Enter> to complete the selection.
- 5 Select **Array Type**.
- 6 Configure the array properties.
- 7 Press **Done** when finish.
- 8 Press <Y> when "Do you want to create an array? (Yes/No):" displayed.
- 9 Press any key to continue.
- 10 Once the RAID volume is created, press <Esc> to exit.

Initialing a RAID Volume

During Adaptec onboard SATA RAID volume creation process, the onboard SATA RAID volume will be automatically initiated once the onboard SATA RAID volume has been created.

Assigning a Hot Spare Drive

A hot spare is a hard disk drive that automatically replaces any failed drive in a RAID volume, and can subsequently be used to rebuild the RAID volume.

- 1 Select **Array Configuration Utility** option.
- 2 Select **Add/Delete Hotspare**.
The **Select drives to assign Spare** displayed.
- 3 Select desired hard drive disk and then press <Insert> to add it in the **Assigned Hotspare drives** area.
- 4 Press <Enter> to complete the selection.
- 5 Press <Y> when "Do you want to create a spare? (Yes/No):" displayed.
- 6 Once a hot spare drive is created, press <Esc> to exit.

MegaRAID 9260-8I SAS RAID Creation

Configuring MegaRAID SAS 260-8I

This section briefly shows how to create RAID volume with MegaRAID SAS 260-8I.

Entering RAID BIOS Utility

To enter the RAID BIOS Utility for MegaRAID SAS 260-8I, press **<Ctrl> + <H>** when you see the RAID BIOS prompt during POST. After POST finished, the **Adapter Selection** page will show on the screen. Click **Start** to launch the **Configuration** menu.

Loading factory default setting

- 1 Select **Adapter Properties** from the **Configuration** menu.
The current adapter settings appear. Click **Next** to change the setting.
- 2 Change the setting of **Set Factory Defaults** from **No** to **Yes** then click **Submit**.
- 3 Press **<Ctrl> + <Alt> + ** to reboot the server.

Creating RAID Volume

- 1 Click **Start** to launch the **Configuration** menu.
- 2 Select **Configuration Wizard**.
- 3 Select **Add Configuration** (default) and click **Next**.
- 4 Select **Custom Configuration** (default) and click **Next**.
- 5 Hold the **<Ctrl>** key and select the drives that you want to add into the array. After selecting the drives, click **Add to Array**.
- 6 Click **Accept DG** then **Next**.
- 7 Select the array you just created, click on **Add to SPAN** then **Next**.
- 8 Select the RAID level you want to use, create the logical volume by specify the size at **Select Size**, then click **Accept** to create the logical volume.
- 9 Click **Next** after creating the logical volume.
- 10 Click **Accept** then **Yes** to save the configuration.

Initializing a RAID volume

- 1 After creating the logical volumes on all of the RAID volumes, click **Accept** then **Yes** to save the configuration.
- 2 Click **Yes** to initialize the new logical drives.
You will see all the logical drives listed.
- 3 Click **Home** to go back to the **Configuration** menu.

Assigning a Hot Spare Drive

- 1 Select a free disk marked as **UNCONF GOOD** and listed under **Physical Drives**.
- 2 Select **Make Global Dedicated HSP** or **Make Dedicated HSP** and click **Go**.
- 3 Click **Home** to go back to the **Configuration** menu.
You will see the disk marked as **Hotspare** in pink and listed under **Physical Drives**.
- 4 Reboot the server and install the operating system. Select **Exit**, click **Yes** and press <Ctrl> + <Alt>+ .

Appendix B Acer Smart Console

Using Acer Smart Console

Acer Smart Console has a user-friendly graphical user interface (GUI) and a standard Internet browser. This article will help you become familiar with the Acer Smart Console. Each function will be described clearly.

Acer Smart Console offers:

System monitoring: Providing detailed information via a web UI, including system information readings, system health overview, sensor readings, and System Event Log readings. Green, amber and red indicators give a clear system health overview and sensor readings to help you to determine system status.

Remote system management: Via KVM/IP redirection lets you fully control the system. You can remotely power on, off, reset system through Acer Smart Console in-band or out-of-band. Acer Smart Console implements media redirection for the CD/DVD ROM drive and floppy drive. This feature enables remote installation of the operating system or applications.

Notification: Via SNMP trap and email to inform a person or management software when system status changes.

Platform neutrality: Acer Smart Console uses the standard HTTP protocols. You can easily use a web browser to remotely manage servers running different operating systems. Acer Smart Console also provides cross-platform JAVA-based KVM redirection.

Security: SSL (Secured Socket Layer) and auto session time out ensure higher security when using the web UI through HTTPS. When using KVM and media redirection you can also encrypt the communication.

Account management: Acer Smart Console implements role-based management. User accounts are separated into three levels: No access, operator and administrator. Acer Smart Console also provides RADIUS and LDAP Client Support.

Software requirements

Supported environments: Microsoft Windows Vista, XP, Windows 2000, 2003 and Server 2008.

JAVA: Version 6, update 12 or higher



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Note: KVM Remote Console Redirection needs to run in a JAVA environment. Ensure the JAVA Runtime Environment Tool is installed.

Accessing Acer Smart Console

- 1 Open your web browser and enter the system's IP address. You will be prompted to enter a username and password.
- 2 Enter the root username and password in the login screen.
 - Username: root
 - Password: superuser
- 3 Click **Login**. The Acer Smart Console page appears.



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Note: The default username is **root** and the default password is **superuser**. Both the username and password are case sensitive and should be entered in lower case each time.



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Important: Logging into the console allows you full administrative rights. Once logged in, you should you change your password.

Acer Smart Console user interface

The Acer Smart Console page opens once you have logged in. This page provides a central location for managing all connected servers. The user interface includes a system status alert indicator, function list, menu bar, function title, section information.

System status

The system status indicator, located in the upper left-hand corner of the Acer Smart Console page, monitors and displays the system health and stability. The system sensors allow you to monitor the system's hardware parameters, such as fan performance, temperature sensors, voltages, and power status. The following are the different system health statuses that may be displayed on the console.

- **Normal:** The system is in good health and no alerts were detected on the sensors.
- **Warning:** At least one sensor has a warning alert.
- **Critical:** At least one sensor has a critical alert.

System Information

The System Information menu includes options that allow you to view general system information and the system FRU (field replaceable units). Selecting the System Information menu displays the system information and FRU readings options in the left pane.

System Information

Displays general server information, such as the power status, management network IP and management controller MAC address, BMC firmware version and build time, FRU revision and SDR revision and allows you to manage the chassis LED indicator.

FRU Reading

Provides information about major system components, including chassis, main board and other product information.

Server Health

Displays data related to the server's health, such as sensor readings and the event log. This menu has two options: Sensor Readings and Event Log.



Sensor Readings

Allows you to monitor status of the voltages of the power supply, the fan speed, processor and system temperature sensors.

Sensor Display Color

Indicates the health of the system processor, fan, temperature and voltage in a box displayed before each sensor category.

- **Green:** Indicates the system is in good health and no alerts were detected on the sensors.
- **Amber:** Indicates at least one sensor has a warning alert.
- **Red:** Indicates at least on sensor has a critical alert.

Threshold

Click **Show Thresholds** to view the threshold parameters of each sensor. It displays the Low Non-Critical (NC), High Non-Critical (NC), High Critical Threshold (CT) threshold information, and these items can not be modified. When each threshold matches alert level, system will send the alert to the specified destinations. To configure the specified destination, please go to Alert section. To refresh the sensor status, just click **Refresh**.

Acer Smart Console

Normal | System Information | **Sensor Health** | Configuration | Remote Control | Virtual Media | Maintenance | Miscellaneous

This section shows you data related to the server's health, such as sensor readings and the event log.

Sensor Readings

This page displays system sensor information, including readings and status. You can toggle viewing the thresholds for the sensors by pressing the Show Thresholds button below.

Select a sensor type (optional): All Sensors

Sensor Readings: 10 sensors

Name	Status	Reading	Low NR	Low CT	Low NC	High CT	High NR
FAN 1	Normal	1029 R.P.M	400	576	764	33656	34225
FAN 2	Normal	1029 R.P.M	400	576	764	33656	34225
FAN 3	Normal	6400 R.P.M	400	576	764	33656	34225
FAN 4	N/A	Not Present	400	576	764	33656	34225
CPU1 temp	Normal	1.91 Volts	0.8	0.81	0.82	1.35	1.36
CPU2 temp	Normal	1.02 Volts	0.8	0.81	0.82	1.35	1.36
+5V	Normal	1.5 Volts	1.32	1.32	1.33	1.85	1.87
-5V	N/A	Not Present	N/A	N/A	N/A	N/A	N/A
+12V	N/A	Not Present	N/A	N/A	N/A	N/A	N/A
CPU1 DIMM	Normal	1.04 Volts	1.32	1.32	1.33	1.85	1.87

Refresh Hide Thresholds

Event Log

Provides a record of system events related to critical hardware components. It logs the events when the sensor triggers an abnormal state or is recovering from an abnormal state. When the log matches a pre-defined alert, the system will send out a notification automatically if pre-configured.

Acer Smart Console

Home | System Information | **Sensor Health** | Configuration | Remote Control | Virtual Media | Maintenance | Miscellaneous

Event Log

Below is a table of the events from the system's event log. You can choose a category from the pull-down box to filter the events, and also sort them by clicking on a column header.

Select an event log category: **Sensor-Specific Events**

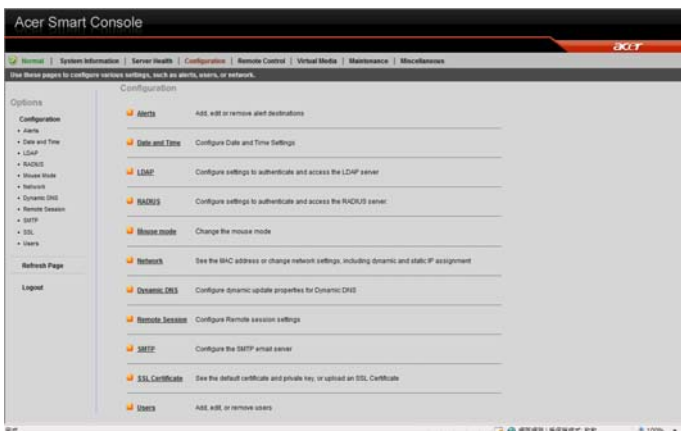
Event Log: 6 event entries

Event ID	Time Stamp	Sensor Name	Sensor Type	Description
1	2008/10/21 02:45:08	+5 V	Voltage	Lower Non-Critical - Going Low - Assailed
2	2008/10/21 02:45:08	+5 V	Voltage	Lower Critical - Going Low - Assailed
3	2008/10/21 02:45:08	+5 V	Voltage	Lower Non-Recoverable - Going Low - Assailed
4	2008/10/21 02:45:08	+12 V	Voltage	Lower Non-Critical - Going Low - Assailed
5	2008/10/21 02:45:08	+12 V	Voltage	Lower Critical - Going Low - Assailed
6	2008/10/21 02:45:08	+12 V	Voltage	Lower Non-Recoverable - Going Low - Assailed

Clear Event Log

Configuration

Allows you to designate email recipients for notification of system alerts, configure the Date and Time, configure the LDAP (Lightweight Directory Access Protocol) and RADIUS settings, configure the mouse mode settings, configure the network settings, configure the Dynamic DNS, configure the remote session settings, configure the SMTP email server settings, create an SSL certificate and manage users.

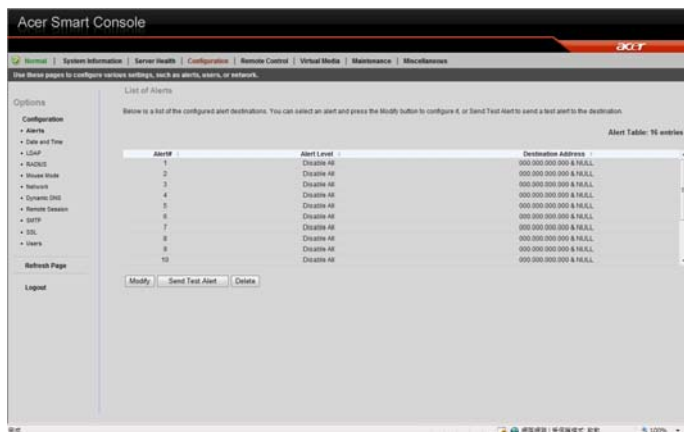


The Configuration menu has the following options:

- Alerts
- Date and Time
- LDAP
- RADIUS
- Mouse mode
- Network
- Dynamic DNS
- Remote Session
- SMTP
- SSL Certificate
- Users

Alerts

Allows you to designate up to 15 email recipients for notification of system alerts. When alerts occur, the system will send an email or a SNMP (Simple Network Management Protocol) trap containing the event detail to the designated recipients.



The Alerts page allows you to do the following:

- **Modify:** Change the email address or the destination server.
- **Send Test Alert:** Send a test alert to the designated email address.
- **Delete:** Remove pre-set alert destination settings.

Setting up alerts

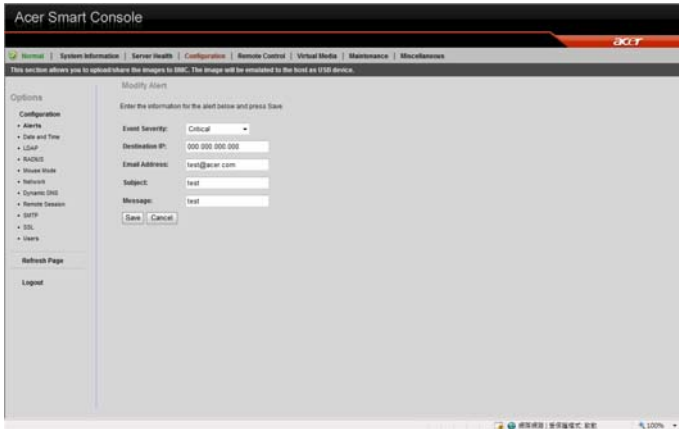
You can set up notifications to be sent via SNMP trap or via email.

Setting up SNMP traps

- 1 On the Alerts page click **Modify**.
- 2 Specify the event severity, such as Critical or Warning.
- 3 Enter the IP information.
- 4 Click **Save**.

Setting up email notifications

- 1 On the Alerts page click **Modify**.
- 2 Specify the event severity, such as Critical or Warning.
- 3 Enter the recipient's email address.
- 4 Enter a subject and message.
- 5 Click **Save**.

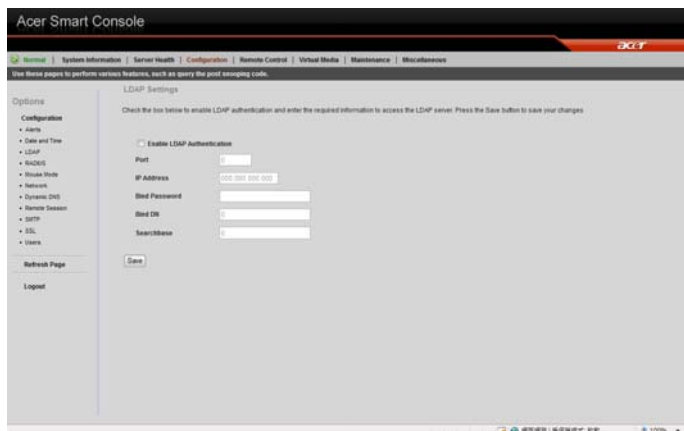


Date and Time

The Date and Time option allows you to set the BMC date and time.

LDAP (if available)

The LDAP option allows you to download the user account list and authentication from the LDAP server and create Acer Smart Console user accounts from this list.

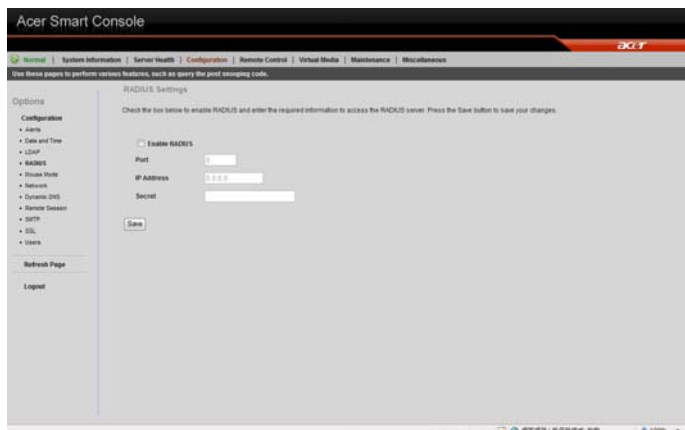


Configuring LDAP settings

- 1 On the LDAP Settings page and check **Enable LDAP Authentication**.
- 2 Enter the required information to access the LDAP server.
- 3 Click **Save**.

RADIUS

The RADIUS option allows you to configure the RADIUS option.

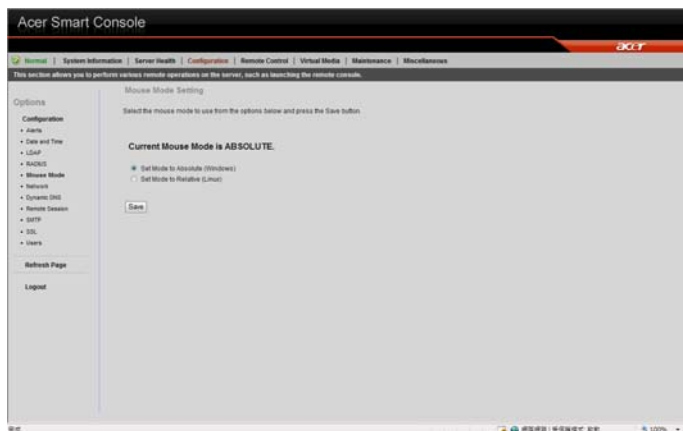


Configuring RADIUS

- 1 On the RADIUS Settings page check **Enable RADIUS**.
- 2 Enter the required information to access the RADIUS server.
- 3 Click **Save**.

Mouse mode

The Mouse mode option allows you to set a mouse mode to control your mouse.



Setting the mouse mode

- 1 Select a mouse mode from the Mouse Mode page.
 - **Absolute:** Select this setting when using a Microsoft Windows operating system.
 - **Relative:** Select this setting when using a Linux operating system.
- 2 Click **Save**.

Network

The Network option allows you to configure and change the management network parameters. You can configure the network settings by using DHCP (Dynamic Host Configuration Protocol) or manually.

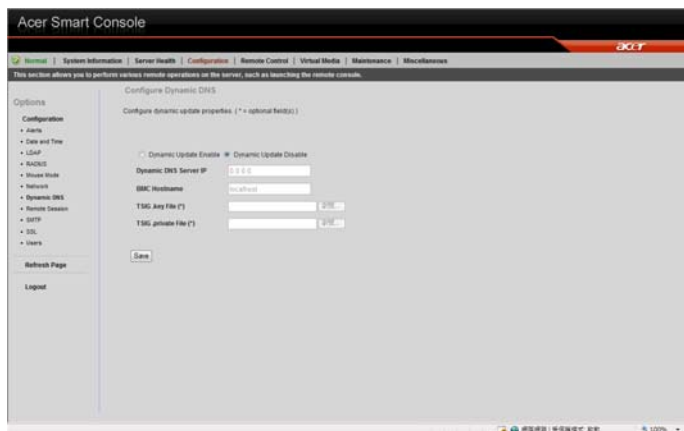


Configuring network settings

- 1 On the Network Settings page, select whether to obtain an IP address automatically or configure the network settings manually.
- 2 Click **Save**.

Dynamic DNS

The Dynamic DNS option allows you to configure and change the management network parameters.

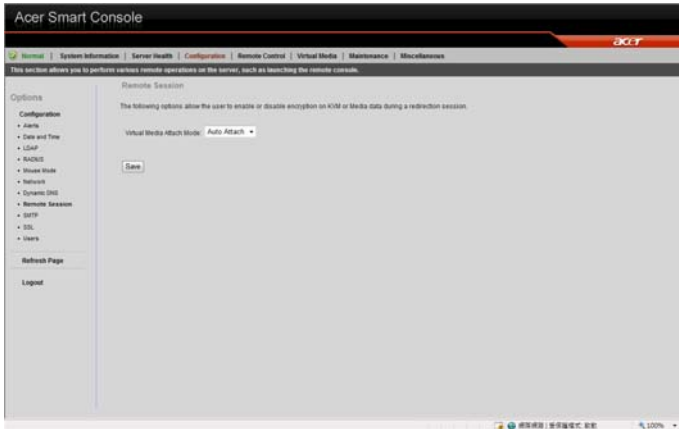


Configuring Dynamic DNS

- 1 On the Dynamic DNS Settings page, check **Enable Dynamic DNS**.
- 2 Enter the required information to access the Dynamic DNS server.
- 3 Click **Save**.

Remote Session

The following options allow you to enable or disable encryption on KVM or Media data during a redirection session. Select the remote session then press **Save**.

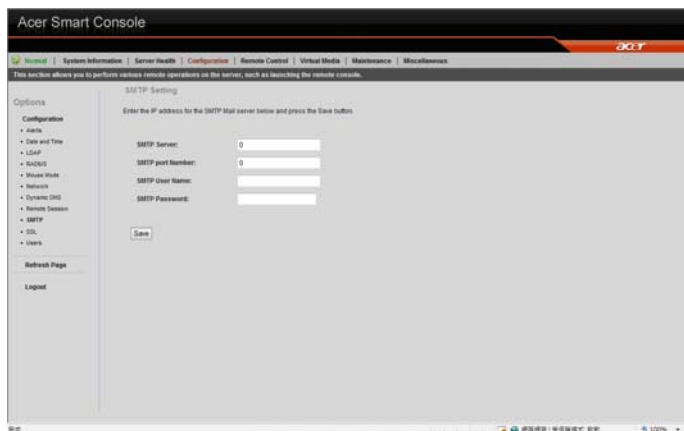


Configuring Remote Session settings

- 1 On the Remote Session page, select whether to enable KVM or Media Encryption.
- 2 Select a Virtual Media Attach Mode.
- 3 Click **Save**.

SMTP

The SMTP option allows you to configure the SMTP (Simple Mail Transfer Protocol) mail server settings.

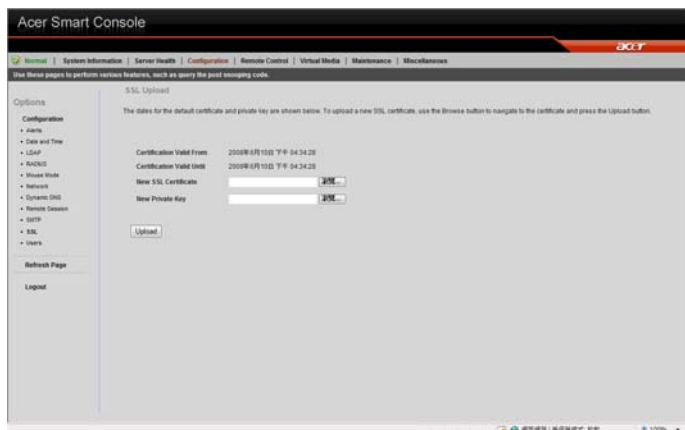


Configuring the SMTP settings

- 1 On the SMTP Setting page, select a LAN channel number.
- 2 Enter the IP address of the SMTP server.
- 3 Enter the username and password.
- 4 Enter the email address for sending email notifications.
- 5 Enter the machine name.
- 6 Click **Save**.

SSL Upload

The SSL Certificate option allows you to upload a SSL certificate manually.

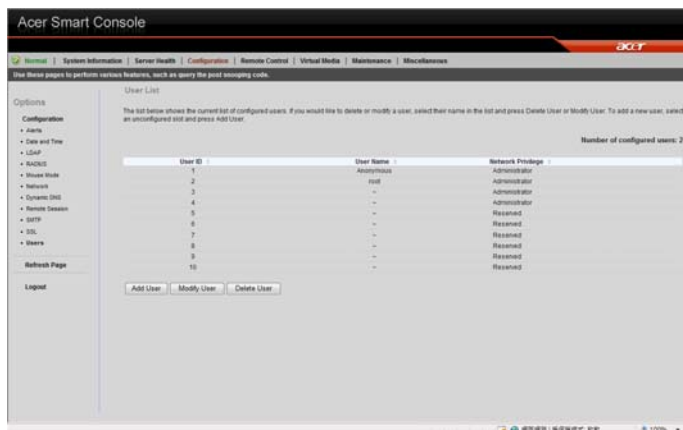


Uploading an SSL certificate

- 1 On the SSL Upload page, click **Browse** to locate the SSL certificate on your system.
- 2 Click **Upload**.

Users

The Users option allows you to create, edit, delete, and view user accounts from the user list.



To configure user accounts in the User List page, you can select from the following command buttons:

- **Delete User:** Remove the user from the list.
- **Modify User:** Edit the user profile.
- **Add User:** Create a new user account.

User Privileges

The User List page includes a privilege setting for determining the maximum privilege a user can have to the system. Users can be configured to have certain access permissions, such as administrator privilege, operator privilege, no access. The BMC (Baseboard Management Controller) maintains a local database of remote access users and their privileges. When the user logs in to the console, BMC determines the user's privileges and executes commands according to the privilege level.

The list below describes the privilege levels you can assign to a user.

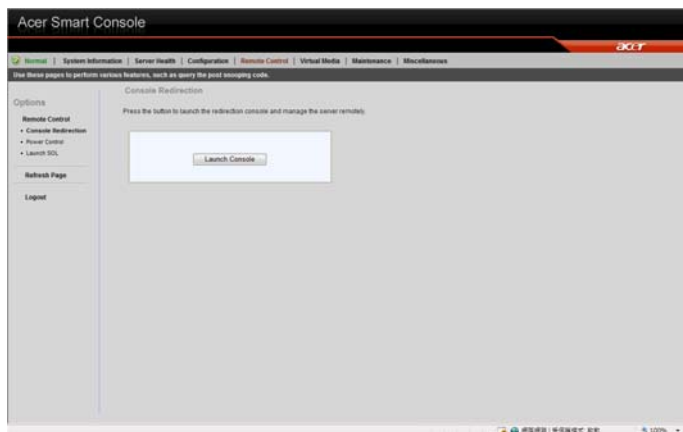
- **No access:** Users assigned this privilege have the least amount of system access. This is considered the lowest privilege level.
- **Operator:** The operator privilege has restricted access. All BMC commands are allowed, except for the configuration commands that allows the user to change the behavior of the out-of-band interfaces. Operator privilege can not disable individual channels or change user access privileges.
- **Administrator:** The administrator privilege has full access and can configure the software and add users. Administrator privilege have access to all BMC commands, including configuration commands for disabling a communication channel.

Modifying a user account

- 1 On the Users page click **Modify User**.
- 2 Enter the username.
- 3 Enter the password.
- 4 Re-enter the password.
- 5 Select a privilege level from the drop-down menu.
- 6 Click **Modify**.

Remote Control

The Remote Control menu allows you to start a Remote Console session with the host system and manage power remotely. This menu include two options: KVM Remote Console Redirection and Server Power Control.



KVM Remote Console Redirection

The KVM Remote Console Redirection option allows you to start the KVM Remote Console utility and remotely manage the server using the monitor, mouse and keyboard as if you are connected directly to the server.

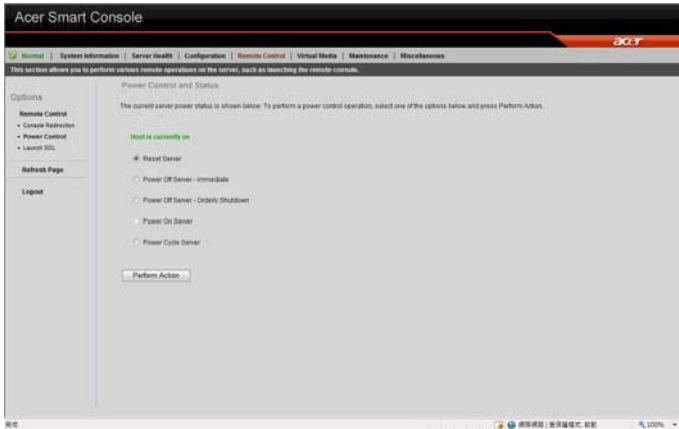
Launching the KVM Remote Console utility

On the KVM Remote Console Redirection page, click **Launch Console**. The web browser downloads and automatically launches the remote console application. The KVM Remote Console screen appears.

For more information about the KVM Remote Console application, refer to **"KVM function description" on page 47**.

Server Power Control

The Server Power Control option allows you to perform a remote power on, power off, power cycle and reset your server.

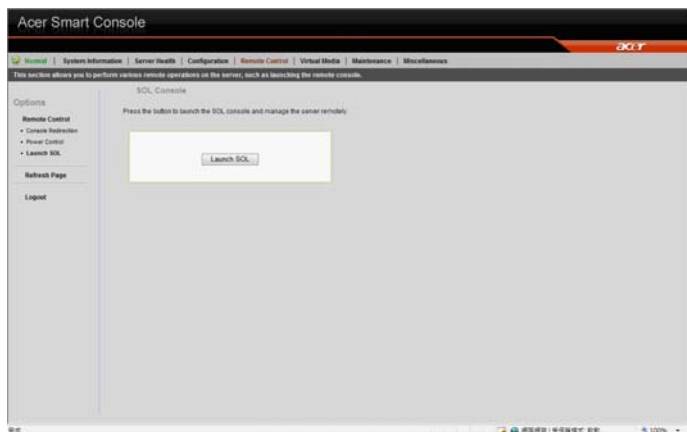


Performing a remote power control operation

On the Server Power Control page, select an option then click **Perform Action**.

Launch SOL

SOL allows you to launch the remote console by using Serial over LAN.



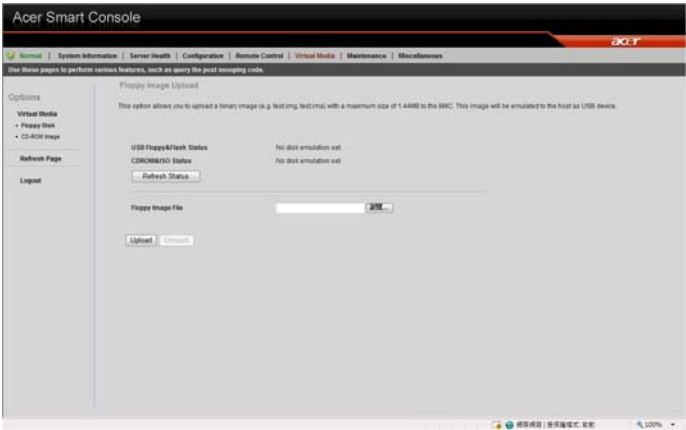
Click **Launch SOL**. Select the Baud rate from the pull-down menu as your SOL transfer rate. Make sure that the Baud rate selected here matches the Baud Rate set in the BIOS.

Once you have selected the Baud rate, and press **Start** to start the session. You can also press **Stop** to stop the SOL connection.

Virtual Media

Floppy disk

This floppy disk option allows you to upload and share images via the BMC. These images will then be emulated to the host server as USB applications.

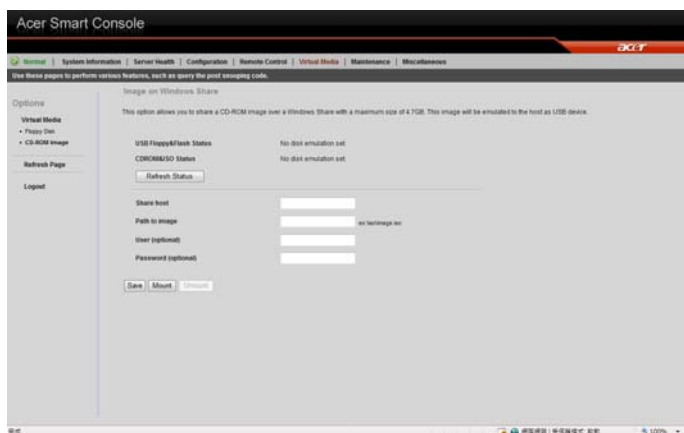


Perform the floppy disk operation

On the floppy disk page select an image file, then click **Upload** to upload your image file to the server.

CD-ROM image

This option allows you to upload and share images via the BMC. These images will then be emulated to the host server as USB applications.



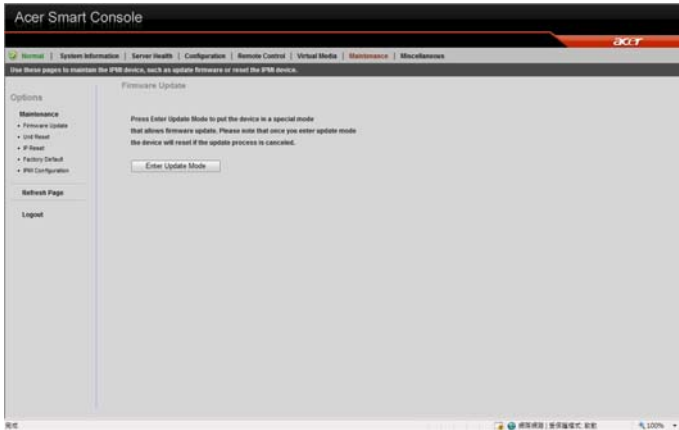
Perform the CD-ROM operation

- 1 On the CD-ROM Setting page, enter the share host server.
- 2 Enter the path to the CD-ROM image file.
- 3 Enter the user name (optional) and password (optional).
- 4 Click **Save**.

Maintenance

Firmware Update

Maintenance allows you to upgrade the BMC firmware (including Acer Smart Console and FRU information).



Upgrading firmware

- 1 On the Maintenance page click **Enter Update Mode**. The Firmware Upload page appears.
- 2 Click **Browse** to locate the firmware image file.
- 3 Click **Upload** to upload the image file to the server.

Unite reset

Unite reset allows you to reboot the BMC (IPMI) Controller.

IP reset

IP reset allows you to reset the settings for virtual media, keyboard and mouse on the host server.

Factory default

Factory Default allows you to reset IPMI to the factory default settings.

IPMI configuration

IPMI Configuration allows you to save the current configuration settings or to restore the settings to a previously-saved state.

Miscellaneous

POST snooping

POST snooping allows you to query the POST (Power-On Self Test) Snooping code for BIOS LPC Port80.

KVM function description

You can launch the KVM Remote Console utility from the Acer Smart Console Remote Control menu. The KVM Remote Console utility enables you to control any programs on the server remotely, using a local keyboard, monitor and mouse.

Virtual media

Virtual storage

Click this item to select a virtual storage device for your console redirection.

- **USB Floppy & Flash Devices:** Click this item to use a USB floppy device or a flash device for your console redirection.
- **CDROM & ISO:** Click this item to use a CDROM or an ISO device for your console redirection.
- **Logical Drive Type:** Click this item to select a logical drive type from the pull down menu for your console redirection.
- **Image Filename and Full Path:** Enter the Image Filename and the path for your console redirection.
- **Plug In:** After you've entered the correct information, click **Plug In > OK** to launch console redirection.

Virtual keyboard

Click this item to configure the virtual keyboard settings for your console redirection.

- **Virtual Keyboard:** Click the item to activate the Virtual Keyboard.
- **English Keyboard:** The screen above shows the Virtual Keyboard in English. Click any key on the keyboard for your BMC connection.

Record

This feature allows you to record media displays for your console redirection.

Start recording: Click this item to start video recording on your remote server.

Stop Recording: Click this item to stop video recording on your remote server.

Playback

This feature allows you to playback the media displays that you have recorded.

- **Open:** Click this item to open your media recording files.
- **Close:** Click this item to close your media recording files.
- **Stop:** Click this item to stop media recording playback.
- **Play/Pause:** Click this item to continue with media recording playback or to stop media recording playback.

Macro

This feature allows you to configure Macro settings for your console redirection.

- **Hold Right ALT Key:** This item performs the same function as you holding down the <Right Alt> key.
- **Hold Left ALT Key:** This item performs the same function as you holding down the <Left Alt> key.
- **Right Windows Key:** This item performs the same function as pressing the <Right Windows> key. Right click this item to select **Hold Down** or **Press & Release** for the <Right Windows> key function.

- **Left Windows Key:** This item performs the same function as pressing the <Left Windows> key. Right click this item to select **Press Down** or **Press & Release** for the <Left Windows> key function.
- **Macro:** Click this item to activate a pull-down submenu displaying Macro hotkeys.
- **Macro Hotkeys:** Click this item to display the macro hotkey pop-up submenu. The hotkeys include the following:
 - <Ctrl> + <Alt> +
 - <Alt> + <Tab>
 - <Alt> + <Esc>
 - <Ctrl> + <Esc>
 - <Alt> + <Space>
 - <Alt> + <Enter>
 - <Alt> + <Hyphen>
 - <Alt> + <F4>
 - <Alt> + <Prnt Scrn>
 - <Prnt Scrn>
 - <F1>
 - <Alt> + <F1>
 - <Pause>

Options

The options menu allows you to configure the settings for Hotkey, Preferences, Full-Screen Mode, OSD UI Style and Keyboard_Mouse_Hotplug for your console redirection.

Hotkey settings

This feature allows you to configure Hotkey settings for your console redirection.

- **Set Hotkey:** Click this item to configure your hotkey settings for your console redirection.
- The Hotkey Settings screen displays the following information:
 - **Hotkeys:** Hotkeys: <Ctrl> + <1> to <Ctrl> + <7> are displayed on the right side of the screen.
 - **Actions:** Click a hotkey to show the action corresponding to this hotkey on the left of the screen.

- **Keyboard Monitor:** Click this item to enable keyboard monitor support.
- **Assign:** Click a hotkey and select an action from the actions menu, and then click **Assign** to assign the action to the hotkey.
- **Start:** After an action is assigned to a hotkey, click **Start** to execute the command and complete the assignment.
- **Stop:** After an action is assigned to a hot key, click **Stop** to cancel the selection.
- **Close:** After configuring the hotkey settings, click **Close** to close this submenu.

Preferences

Display

Recording Time: Check this box if you want video recording to be automatically turned off at a certain time. Once the automatic stop is selected, enter the number of minutes before your video recording will be automatically shut-off.

Display Scale: Use the handle on the slider to set the appropriate scale setting for your video display (from 25 to 100).

Image Quality: Check the High Color box for a network connection with heavier traffic. Check the Low Color box for a network connection with lighter traffic. Click **OK** to use the settings set up by you.

Input

Mouse Settings: Click **Input** to configure mouse settings, including the following.

Enable Mouse Input: Check this box to use your mouse as an input device for your console redirection. Once mouse support is enabled, select **Absolute Mouse Mode** if you use Windows; select **Relative Mouse** for Linux.

Keyboard Settings: Check this box to use the keyboard as an input device for your console redirection. Once keyboard support is enabled, you can configure repeat key timeout settings.

Repeat Key Timeout: Use the handle on the slider to select the appropriate timeout settings for repeat keystrokes from 0 ms (millisecond) to 1000 ms (millisecond).

Language

From the Preferences submenu, select **Language settings**.

From the language settings pop-up menu select the language you want to use for console redirection. The language options are: English, Japanese, German, French, Spanish, Korean, and Italian.

Once you have selected a language to use, click **OK**.

Window

From the Preference submenu, click **Window** to display the submenu. The Window pop-up menu will open.

Check this box to allow the display window to be automatically resized for best video display.

Click **OK** to keep the selection.

Video Stream Control

From the Preference submenu, click **Video Stream Control** to display the submenu. The Window pop-up menu will display.

Check this box to enable Video Stream Flow Control support.

Select the correct speed setting. After setting the speed click **OK**.

Full-screen mode

This feature allows you to set the video display to the full-screen mode for your console redirection.

OSD UI style

This feature allows you to configure the OSD UI style settings for console redirection.

The OSD UI Style Screen: This screen provides shortcuts to the main features provided by the firmware for console redirection. Click an OSD UI Style icon to change the settings.

Move OSD UI Screen: Click this icon to move the UI to a new location on the display.

Hotkey Settings: Click this icon to access the Hotkeys submenu and change the settings.

Virtual Media: Click this item to access the Virtual Media submenu and configure the settings.

Virtual Keyboard: Click this item to access the Virtual Keyboard submenu and use your virtual keyboard.

Preferences submenu: Click this item to access the Preferences submenu.

Full-screen Mode: Click this item to change the display window to the full-screen.

Exit Remote Console: Click on this item to exit from the remote connection.

User List: Click on this item to display the user list.

Change Tool Bar Display: Click this item to change the tool bar display format.

Hotplug Keyboard/Mouse: Click this item to use hotplug keyboard and mouse.

Macro: Click this item to enable Macro support and use the Macro settings features.

Video Recording: Click this item to access the Video Recording submenu and to use video recording.

Video Playback: Click this item for video playback.

Hotplug Keyboard/Mouse

Hotplug Keyboard/Mouse: Click the item enable keyboard/mouse hotplug support for your console redirection.

User List

This feature allows you to access the user list.

Session ID: This item displays the current session ID#.

User Name: This item displays the name(s) of the user(s).

IP Address: This item displays the IP Address of the host server.

Capture

This feature allows you to capture the screen display on your remote console.

Full Screen Capture: Click this item to capture the full screen video display.

Exit

Yes: At the prompt, click **Yes** to exit from remote redirection.

No: Click **No** to return to the current session.

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